

Abstract of the Disclosure:

A transmission line type noise filter connectable between a direct current power supply (70) and an electrical load component (80) to pass a coming DC current while attenuating a coming AC current comprises a first conductor (11), a dielectric layer (30), a second conductor (20) as a cathode, a first anode (12), and a second anode (13). The first and the second conductors (11, 20) and the dielectric layer (30) serve as a capacitance forming portion (50). The thickness ( $t$ ) of the first conductor (11) is selected to substantially restrict temperature elevation of the first conductor (11), which is caused by DC direct current flowing in the first conductor (11).

(Figs. 1A to 1C)